

Copyright (c) 1993 - 2006 Biocceleration Inc.

OM protein - protein search, using sw model

Run qn: April 12, 2006, 09:12:48 ; Search time 48 Seconds

(without alignments)

769.917 Million cell updates/sec

Title: US-10-661-378-9

Perfect score: 2360

Sequence: 1 MEGGMPARQSLCLTVSLL.....RLYLLFMASSILTYVILWNT 447

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched:

Total number of hits satisfying chosen parameters:

572060

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*

- 1: /cgm2_6_ptodata/1/iaa/5_COMBO.pep:*
- 2: /cnz2_6_ptodata/1/iaa/6_COMBO.pep:*
- 3: /cgm2_6_ptodata/1/iaa/H_COMBO.pep:*
- 4: /cgm2_6_ptodata/1/iaa/P_COMBO.pep:*
- 5: /cnz2_6_ptodata/1/iaa/RE_COMBO.pep:*
- 6: /cgm2_6_ptodata/1/iaa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No. Score Query Match Length DB ID Description

Result No.	Score	Query Match	Length	DB ID	Description
1	2360	100.0	447	2 US-09-388-349-9	Sequence 9, Appli
2	717.5	30.4	457	2 US-09-579-250-4	Sequence 4, Appli
3	583.5	24.7	470	2 US-09-579-250-6	Sequence 6, Appli
4	529.5	22.4	441	2 US-09-061-154-2	Sequence 2, Appli
5	526.5	22.3	441	2 US-09-061-154-4	Sequence 4, Appli
6	422.5	17.9	497	1 US-08-278-635B-5	Sequence 5, Appli
7	422.5	17.9	497	2 US-08-464-258B-5	Sequence 5, Appli
8	422.5	17.9	497	2 US-08-471-961-5	Sequence 5, Appli
9	419.5	17.6	497	2 US-09-345-109C-5	Sequence 5, Appli
10	419	17.8	504	2 US-08-660-451A-4	Sequence 4, Appli
11	417.5	17.7	479	1 US-08-278-635B-2	Sequence 2, Appli
12	411.5	17.7	479	2 US-08-464-258B-2	Sequence 2, Appli
13	417.5	17.7	479	2 US-08-471-961-2	Sequence 2, Appli
14	417.5	17.7	419	2 US-09-345-109C-2	Sequence 2, Appli
15	415.5	17.6	494	2 US-08-487-596-10	Sequence 10, Appli
16	415.5	17.6	494	2 US-08-484-722-2	Sequence 2, Appli
17	415.5	17.6	494	2 US-08-660-451A-10	Sequence 10, Appli
18	415.5	17.6	494	2 US-09-703-951A-10	Sequence 10, Appli
19	412.5	17.5	502	2 US-09-579-250-14	Sequence 14, Appli
20	407.5	17.3	502	2 US-09-579-250-10	Sequence 10, Appli
21	405.5	17.2	510	1 US-08-278-635B-4	Sequence 4, Appli
22	405.5	17.2	510	2 US-08-471-961-4	Sequence 4, Appli
23	405.5	17.2	510	2 US-09-345-109C-4	Sequence 4, Appli
24	405	17.2	458	2 US-08-487-596-16	Sequence 16, Appli
25	405	17.2	458	2 US-08-484-722-4	Sequence 4, Appli
26	405	17.2	458	2 US-09-703-951A-16	Sequence 16, Appli
27	404.5	17.1	511	2 US-08-464-258B-4	Sequence 6, Appli
28	404.5	17.1	458	2 US-08-660-451A-16	Sequence 6, Appli
29	404	17.1	458	2 US-09-949-016-5986	Sequence 2, Appli
30	404	17.1	529	1 US-08-487-596-2	Sequence 2, Appli
31	402.5	17.1	529	2 US-08-660-451A-2	Sequence 2, Appli
32	402.5	17.1	529	2 US-09-0703-951A-2	Sequence 2, Appli
33	402.5	17.1	529	1 US-08-278-635B-8	Sequence 6, Appli
34	402.5	17.1	629	2 US-08-471-961-6	Sequence 6, Appli
35	401	17.0	629	2 US-08-471-961-6	Sequence 6, Appli
36	401	17.0	629	2 US-09-345-109C-6	Sequence 6, Appli
37	401	17.0	607	2 US-09-949-016-7817	Sequence 6, Appli
38	400.5	17.0	627	2 US-08-660-451A-6	Sequence 6, Appli
39	400.5	17.0	502	1 US-08-466-589-8	Sequence 8, Appli
40	399.5	16.9	502	1 US-08-700-636-8	Sequence 8, Appli
41	399.5	16.9	502	2 US-08-467-574-8	Sequence 8, Appli
42	399.5	16.9	502	2 US-08-487-596-12	Sequence 8, Appli
43	399.5	16.9	502	2 US-09-892-985-8	Sequence 8, Appli

ALIGNMENTS

RESULT 1
US-09-388-349-9
; Sequence 9, Application US/09388349

; Patent No. 6365370

; GENERAL INFORMATION:

; APPLICANT: Dubin, Adrienne E

; APPLICANT: Erlander, Mark G

; ATTORNEY: Huvar, Rene

; ATTORNEY: Buehler, Lukas K

; TITLE OF INVENTION: DNA Encoding A Human Subunit 5-HT3 Recept

; FILE REFERENCE: ORT-1039

; CURRENT APPLICATION NUMBER: US/09/388-349

; CURRENT FILING DATE: 1999-09-01

; NUMBER OF SEQ ID NOS: 12

; SBQ ID NO: 9

; LENGTH: 447

; TYPE: PRT

; ORGANISM: Homo sapiens

; US-09-388-349-9

Query	Match	Score	DB	Local Similarity	Best Local Similarity	Length
1	MEGGWPAROSALLCLTVSLLQLGRGDAFTINCSGFDFDQGVDPAVFOAIVEDFKAFRPFNTY	100.0%	60	100.0%	100.0%	447
Qy	1	MEGGWPAROSALLCLTVSLLQLGRGDAFTINCSGFDFDQGVDPAVFOAIVEDFKAFRPFNTY	1	1	1	447
Db	1	MEGGWPAROSALLCLTVSLLQLGRGDAFTINCSGFDFDQGVDPAVFOAIVEDFKAFRPFNTY	60	1	1	447
Qy	61	SIPTRVNISPTSLAILSVDYDAQLQLITSTWMDLWNPFINNPKCEVGINKLTVLAENL	61	100.0%	100.0%	447
Qy	61	SIPTRVNISPTSLAILSVDYDAQLQLITSTWMDLWNPFINNPKCEVGINKLTVLAENL	61	100.0%	100.0%	447
Db	61	SIPTRVNISPTSLAILSVDYDAQLQLITSTWMDLWNPFINNPKCEVGINKLTVLAENL	120	100.0%	100.0%	447
Qy	121	WLDDIFIVESMDYDQTPLGLTATISSEGRIKTDKPMRITSICNDIDTFPPFDQNCITTF	120	100.0%	100.0%	447
Qy	121	WLDDIFIVESMDYDQTPLGLTATISSEGRIKTDKPMRITSICNDIDTFPPFDQNCITTF	120	100.0%	100.0%	447
Qy	181	SSFLIYTDSMLLGNDKEYWEITDTTSRVKTYQTQGEWELLIGINKRATPKMSMGNNLYDQIMFY	181	100.0%	100.0%	447
Qy	181	SSFLIYTDSMLLGNDKEYWEITDTTSRVKTYQTQGEWELLIGINKRATPKMSMGNNLYDQIMFY	181	100.0%	100.0%	447
Db	181	SSFLIYTDSMLLGNDKEYWEITDTTSRVKTYQTQGEWELLIGINKRATPKMSMGNNLYDQIMFY	240	100.0%	100.0%	447
Qy	241	VATRRPSIYIINLIVPSSFLYDAIDSFLYAESRNAPPEKITLILGYNVFLMMNDL	241	100.0%	100.0%	447
Qy	241	VATRRPSIYIINLIVPSSFLYDAIDSFLYAESRNAPPEKITLILGYNVFLMMNDL	241	100.0%	100.0%	447
Db	241	VATRRPSIYIINLIVPSSFLYDAIDSFLYAESRNAPPEKITLILGYNVFLMMNDL	300	100.0%	100.0%	447
Qy	301	PASGTPPLISVYFACLSMVMVSLLETVITYLVAVTOPPMPMRWLSLLUCLCTSPRC	301	100.0%	100.0%	447
Qy	301	PASGTPPLISVYFACLSMVMVSLLETVITYLVAVTOPPMPMRWLSLLUCLCTSPRC	301	100.0%	100.0%	447
Db	301	PASGTPPLISVYFACLSMVMVSLLETVITYLVAVTOPPMPMRWLSLLUCLCTSPRC	360	100.0%	100.0%	447
Db	301	PASGTPPLISVYFACLSMVMVSLLETVITYLVAVTOPPMPMRWLSLLUCLCTSPRC	360	100.0%	100.0%	447

This sequence represents human 5-HT3-C protein which may function as a CC subunit to modulate the function of a serotonin 5-HT3-A receptor. CC Recombinant 5-HT3-C is useful for identifying modulators of the 5-HT3 complex and modulator of human 5-HT3-C subunit activity is useful in CC treating conditions that are mediated by 5-HT3-C, for example nausea, CC depression, anxiety psychoses (e.g. schizophrenia, Parkinson's disease, obesity, Huntington's chorea, Erdive dyckinesia, Gilles de la Tourette's syndrome, sexual CC dysfunction, drug addiction/abuse, cognitive disorders, Alzheimer's disease, cerebral coma, senile dementia, obsessive-compulsive behavior, CC panic attacks, pain, social phobias, eating disorder and anorexia, CC cardiovascular and cerebrovascular disorders, non-insulin dependent diabetes mellitus, hyperglycemia, constipation, arrhythmia, disorders of CC the neuroendocrine system, stress and spasticity as well as ulcers, CC airway constriction, asthma, allergy, inflammation and prostate CC dysfunction.

SQ Sequence 447 AA;

Query Match 100.0%; Score 2360; DB 4; Length 447;

Best Local Similarity 100.0%; Pred. No. 1.6e-225; Matches 447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 MEGGMPARQSALLCITVSLLQGRGDAFTINCSDGFDOHGVDPAVOFVDRKAFRPFTNY 60

Qy 1 MEGGMPARQSALLCITVSLLQGRGDAFTINCSDGFDOHGVDPAVOFVDRKAFRPFTNY 60

Db 1 MEGGMPARQSALLCITVSLLQGRGDAFTINCSDGFDOHGVDPAVOFVDRKAFRPFTNY 60

Qy 1 SIPTRVNISFTSAILGYDQAQLQITSPMLWVNPFIINNPKECVGINKLTIVLAENL 120

Db 1 SIPTRVNISFTSAILGYDQAQLQITSPMLWVNPFIINNPKECVGINKLTIVLAENL 120

Qy 121 WLDIFIVESPMDQTSGLTAIYISSBGRKTYDKPRAVTSICNLDFIYFPFDQNCNTPTF 180

Db 121 WLDIFIVESPMDQTSGLTAIYISSBGRKTYDKPRAVTSICNLDFIYFPFDQNCNTPTF 180

Qy 181 SSFLYTVDMSLGMDEKEYWEITDTSRKVICTOGEWELLGINKRATPKNSMGNLYDQIMFY 240

Db 181 SSFLYTVDMSLGMDEKEYWEITDTSRKVICTOGEWELLGINKRATPKNSMGNLYDQIMFY 240

Qy 241 VAIIRRSLYIINLLVPPSSFLVAIDALSFLYPAESERNAFPIKTTLGLYNVFLLMNDLL 300

Db 241 VAIIRRSLYIINLLVPPSSFLVAIDALSFLYPAESERNAFPIKTTLGLYNVFLLMNDLL 300

Qy 301 PASGTLPLISVYFALCISLMVVSLETFITYLHVATTOPPMRMTLHSLLHCTSPGRC 360

Db 301 PASGTLPLISVYFALCISLMVVSLETFITYLHVATTOPPMRMTLHSLLHCTSPGRC 360

Qy 361 CPTAPQKGKNGKGLTTHLPGPKEPGPGLAGKKGPRETEPDGSGWTKTQMLMELWYQFSH 420

Db 361 CPTAPQKGKNGKGLTTHLPGPKEPGPGLAGKKGPRETEPDGSGWTKTQMLMELWYQFSH 420

Qy 421 AMDTLRLFLYLFMASSLTIVLWNT 447

Db 421 AMDTLRLFLYLFMASSLTIVLWNT 447

RESULT 2
ADM43152 standard; protein; 447 AA.

ID ADM43152;

AC AC;

DT 03-JUN-2004 (first entry)

XX Human 5HT3C subunit.

DB Human; INPIONCHI; serotonin receptor; antiemetic; analgesic;

XX human; INPIONCHI; serotonin receptor; antiemetic; analgesic;

KW antiacoholic; neurotropic; antiparkinsonian; anticonvulsant;

KW neuroprotective; notropic; antidepressant; antiasthmatic; endocrine; cardiovacular;

KW tranquiliser; antidepressant; antiasthmatic; haematoxic; antiarthritic;

KW antipsoriatic; antiasthmatic; antiarthritic; fungicide; gene therapy;

KW dermatological; ophthalmological; cytostatic; anti-HIV; viricide;

KW antibacterial; antitubercular; tuberculosatic; fungicide; gene therapy;

KW vaccine; 5-HT3 receptor; SHT3C.

XX Homo sapiens.

XX WO2004009633-A1.

XX PN 29-JAN-2004.

XX PD 21-JUN-2003; 2003WO-GB003130.

XX PR 19-JUL-2002; 2002GB-00016903.

XX PA (INPH-) INPHARMATICA LTD.

XX Lobley AE, Michalovich D, Stancovski I, Allen KB, Allen JM;

PI Osypenko VN, Gurney AM;

XX XX DR 2004-123373/12.

XX XX WPI; 2004-123373/12.

XX XX Disclosure; Fig 4; 106pp; English.

XX XX The invention relates to novel INPIONCHI polypeptides having serotonin

CC receptor activity. A polypeptide of the invention has antiemetic,

CC analgesic, antiemetic, neuroleptic, antiinflammatory, Gastrointestinal

CC -gen., neuroprotective, notropic, antiparkinsonian, anticonvulsant,

CC tranquiliser, antidepressant, antiasthmatic, endocrine-gen.

CC cardiovascular, antidiabetic, dermatological, orthopaedical, cytostatic,

CC anti-HIV, viricide, antibacterial, antitubercular, tuberculosatic, and

CC fungicide, activity, and may have a use in gene therapy, or a vaccine. The

CC polypeptide, nucleic acid molecule, vector, host cell, ligand or compound

CC is useful in the therapy or diagnosis of diseases. These may also be used

CC in the manufacture of a medicament for the treatment of diseases

CC including, but not limited to, nausea, vomiting, pain, eating disorders,

CC alcoholism, psychosis, side effects of various anticancer therapies,

CC irritable bowel syndrome, Gastrointestinal-related disorders, Alzheimer's

CC disease, Parkinson's disease, Huntington's Chorea, cognitive disorders,

CC behavioural disorders and phobias such as anxiety related illnesses and

CC addiction, obsessive-compulsive behaviour, memory and learning disorders,

CC depression and Panic disorders, asthma, inflammation, sexual dysfunction,

CC disorders of the neuroendocrine and cardiovascular systems, or diseases

CC associated with T-cells such as inflammatory bowel diseases (including

CC Crohn's disease and ulcerative colitis), multiple sclerosis, psoriasis,

CC rheumatoid arthritis, thrombocytopenia, type I diabetes mellitus, atopic

CC dermatitis, atopic rhinitis and conjunctivitis, diseases associated with T-cell

CC depletion such as leukaemias, diseases associated with T-cell

CC depletion such as HIV infection, chemotherapy and radiotherapy, and

CC diseases where regulation of T-cell activation is required, such as

CC cancers, viral infections, bacterial infections (including tuberculosis)

CC and fungal infections. The polypeptide is also used as a member of the 5-

CC HT3 receptor Group. The present sequence is used in the exemplification

CC of the invention.

XX XX SQ Sequence 447 AA;

Query Match 1 MEGGWPARQSALLCITVSLLQGRGDAFTINCSDGFDOHGVDPAVOFVDRKAFRPFTNY 60

Best Local Similarity 1 MEGGWPARQSALLCITVSLLQGRGDAFTINCSDGFDOHGVDPAVOFVDRKAFRPFTNY 60

Matches 445; Conservative 0; Mismatches 0; Indels 2; Gaps 0;

Qy 61 SIPTRVNISFTSAILGYDQAQLQITSPMLWVNPFIINNPKECVGINKLTIVLAENL 120

Db 61 SIPTRVNISFTSAILGYDQAQLQITSPMLWVNPFIINNPKECVGINKLTIVLAENL 120

Qy 121 WLPDIFFVYESMDYDQTSGLTAYISSESGRKYDKPMRVTSCICNLDFYFPDPQQNCFTTF 180

Db 121 WLPDIFFVYESMDYDQTSGLTAYISSESGRKYDKPMRVTSCICNLDFYFPDPQQNCFTTF 180

Copyright GenCore version 5.1.7
(c) 1993 - 2006 Biocceleration Ltd.

OM protein - protein search, using sw model

Run on: April 12, 2006, 09:08:53 ; Search time 40 Seconds
(without alignments)

Scoring table: BLOSUM62 Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs., 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Database : PIR_80:*

1: pir1;*
2: pir2;*
3: pir3;*
4: pir4;*

Result No.	Score	Query	Match	Length	DB ID	Description
1	722	30.6	462	2	I58179	5HT3 receptor subunit 5-hydroxytryptamine
2	717	30.4	489	2	I58175	nicotinic acetylch
3	446.5	18.9	464	2	A33523	nicotinic acetylch
4	435	18.4	528	1	ACCH2N	acetylcholine rece
5	426	18.1	495	2	S60519	nicotinic acetylch
6	422	17.9	499	2	A24572	nicotinic acetylch
7	419	17.8	503	2	A53356	nicotinic acetylch
8	417.5	17.7	479	2	A55382	nicotinic acetylch
9	417	17.7	494	2	T09289	nicotinic acetylch
10	414	17.5	455	2	A55972	nicotinic acetylch
11	408	17.3	502	2	B37040	nicotinic acetylch
12	407	17.2	512	2	B37014	nicotinic acetylch
13	405.5	17.2	622	1	ACCH4N	nicotinic acetylch
14	404.5	17.1	511	2	A40110	nicotinic acetylch
15	403	17.1	423	2	I38056	nicotinic acetylch
16	401	17.0	455	2	S51116	nicotinic acetylch
17	400.5	17.0	462	2	S06893	nicotinic acetylch
18	400.5	17.0	627	2	JCA021	nicotinic acetylch
19	399.5	16.9	502	1	AICH07	nicotinic acetylch
20	398.5	16.9	501	2	A25338	nicotinic acetylch
21	397.5	16.8	502	2	JN0113	nicotinic acetylch
22	397	16.8	625	2	A26456	nicotinic acetylch
23	395.5	16.8	505	2	S07227	nicotinic acetylch
24	394	16.7	466	2	S16333	nicotinic acetylch
25	393.5	16.7	502	2	G02559	alpha 7 neuronal n
26	392.5	16.6	502	2	A57175	nicotinic acetylch
27	392.5	16.6	502	2	T01378	nicotinic receptor
28	391	16.6	502	2	S10305	nicotinic acetylch
29	389.5	16.5	454	2	B39211	nicotinic acetylch

Copyright (c) 1993 - 2006 Biocceleration Ltd.

OM protein - protein search, using SW model

Run on: April 12, 2006, 09:24:04 ; Search time 167 Seconds

(without alignment)

1118.381 Million cell updates/sec

Title: US-10-661-378-9

Perfect Score: 2360

Sequence: 1 MEGGWPARQSALLCITVSLL.....RLYLFFMASSILTYVILWNT 447

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA_Main.*

1: /cgns2_6_ptodata/1/pubpaas/us07_pubcomb.pep:*

2: /cgns2_6_ptodata/1/pubpaas/us08_pubcomb.pep:*

3: /cgns2_6_ptodata/1/pubpaas/us09_pubcomb.pep:*

4: /cgns2_6_ptodata/1/pubpaas/us10_pubcomb.pep:*

5: /cgns2_6_ptodata/1/pubpaas/us11_pubcomb.pep:*

6: /cgns2_6_ptodata/1/pubpaas/us12_pubcomb.pep:*

RESULT 1
US-09-955-524-9

; Sequence 9, Application US/09955524

; Patent No. US20020131138A1

; GENERAL INFORMATION:

; APPLICANT: Dublin, Adrienne E

; EXALander, Mark G

; APPLICANT: Huvar, Arne

; APPLICANT: Buehler, Lukas K

; TITLE OF INVENTION: DNA ENCODING A HUMAN SUBUNIT 5-HT3 C OF THE 5-HT3 SEROTONIN

; RECEPTOR

; FILE REFERENCE: ORT-1039

; CURRENT APPLICATION NUMBER: US/09/955-524

; CURRENT FILING DATE: 2001-09-15

; NUMBER OF SEQ ID NOS: 12

; SOFTWARE: Patentin Ver. 2.0

; SEQ ID NO: 9

; LENGTH: 447

; TYPE: PRT

; ORGANISM: Homo sapiens

; US-09-955-524-9

Result No. , Score Query Match Length DB ID Description

No.	Score	Query Match	Length	DB ID	Description
1	2360	100.0	447	3 US-09-955-524-9	Sequence 9, Appli
2	2360	100.0	447	5 US-10-661-378-9	Sequence 9, Appli
3	1795	76.1	457	4 US-10-243-475-132	Sequence 132, App
4	1787.5	75.7	471	4 US-10-243-475-121	Sequence 121, App
5	1787.5	75.7	586	3 US-09-902-668-105	Sequence 105, App
6	1787.5	75.7	586	4 US-10-243-475-105	Sequence 105, App
7	1787.5	75.7	614	4 US-10-243-475-119	Sequence 119, App
8	1786.5	75.7	471	3 US-09-999-995-116	Sequence 116, App
9	1505	67.2	393	4 US-10-149-330-50	Sequence 50, Appli
10	1424	60.3	332	3 US-09-802-668-106	Sequence 106, App
11	1424	60.3	332	4 US-10-243-475-106	Sequence 106, App
12	975.5	41.3	357	3 US-09-899-945-118	Sequence 118, App
13	766	32.5	478	4 US-10-173-995-14	Sequence 44, Appli
14	766	32.5	478	4 US-10-199-995-3	Sequence 3, Appli
15	766	32.5	478	5 US-10-684-206-12	Sequence 12, Appli
16	766	32.5	478	5 US-10-756-149-3336	Sequence 5336, Ap
17	729.5	30.9	477	5 US-10-973-958-12	Sequence 12, Appli
18	717.5	30.4	457	4 US-10-740-083-4	Sequence 4, Appli
19	583.5	24.7	470	4 US-10-740-083-6	Sequence 6, Appli
20	420	17.8	450	3 US-09-795-93-11	Sequence 11, Appli
21	420	17.8	450	4 US-10-156-239-11	Sequence 11, Appli
22	420	17.8	450	4 US-10-199-485-11	Sequence 11, Appli
23	420	17.8	450	4 US-10-312-088-38	Sequence 38, Appli
24	420	17.8	450	5 US-10-343-903-15	Sequence 15, Appli
25	420	17.8	450	5 US-10-687-268-18	Sequence 38, Appli
26	419	17.8	504	4 US-10-349-836-4	Sequence 4, Appli
27	419	17.8	504	5 US-10-723-860-3689	Sequence 3689, Ap

ALIGNMENTS

US-10-661-378-9
 ; Sequence 9, Application US/10661378
 ; Publication No. US20050124795A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Roberts, Steven L.
 ; APPLICANT: Benjamin, Christopher W.
 ; APPLICANT: Karnovsky, Alla M.
 ; APPLICANT: Ruble, Cara L.
 ; TITLE OF INVENTION: Human Ion Channels B
 ; FILE REFERENCE: PHRM039-100
 ; CURRENT APPLICATION NUMBER: US/10/243,475
 ; CURRENT FILING DATE: 2003-01-16
 ; PRIOR APPLICATION NUMBER: 60/403,254
 ; PRIOR FILING DATE: 2002-08-13
 ; PRIOR APPLICATION NUMBER: 60/318,733
 ; PRIOR FILING DATE: 2001-09-12
 ; NUMBER OF SEQ ID NOS: 138
 ; SOFTWARE: PatentIn version 3.2
 ; SEQ ID NO: 132
 ; LENGTH: 457
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-10-243-475-132

Query Match 76.1%; Score 1795; DB 4; Length 457;
 Best Local Similarity 73.5%; Pred. No. 3..8e-67;
 Matches 336; Conservative 44; Mismatches 67; Indels 10; Gaps 2;

Qy 1 MEGGW-PAROSAILCLTVSLLIQRGDAFTINCSDFOHQGVDAFPAVFOAVDFDKAFRFTN 59
 Db 1 MEGLSWPFKFRKFPSFYLLGFLLQGRGTTFINCSDFOHQGADPTALNSVNFKPFRPTN 60

Qy 60 YSIPTRYNISFLSAILGYDAQOLQILTSFLWMDLWNTPEINNNPKSCVGINKLUTVAEN 119
 Db 61 ISPTQTQNSISFAMSAILDVNEQHLLSLFNLTEMVNNNPFIWNPEEGITKMSMAKN 120

Qy 120 LWLPDIFTIVSNDVDQPSGLTAYISSEGRIKYDKPDRVTSICNLDIYFYPFDQONCTFT 179
 Db 121 LWLPDIFTIEMDVDPKPGKJAYVSBEGRBYKKPKVYDSFQONCTFT 180

Qy 121 MEQWPQASQALLCLTVSLLIQRGDAFTINCSDFOHQGVDAFPAVDFDKAFRPTNY 60
 Db 122 MEQWPQASQALLCLTVSLLIQRGDAFTINCSDFOHQGVDAFPAVDFDKAFRPTNY 60

Qy 123 SIPRVNTSFITSAILGYDAQOLQILTSFLWMDLWNTPEINNPCKBCVGINKLUTVAENL 120
 Db 124 SIPRVNTSFITSAILGYDAQOLQILTSFLWMDLWNTPEINNPCKBCVGINKLUTVAENL 120

Qy 125 WLDPDIFTIVSMDVDQTPSGLTAYISSEGRIKYDKPDRVTSICNLDIYFPFDQONCTFT 180
 Db 126 WLDPDIFTIVSMDVDQTPSGLTAYISSEGRIKYDKPDRVTSICNLDIYFPFDQONCTFT 180

Qy 127 SSPLTYVDSMIGMDKEYWEITDTSRKVIQTQGEWLLGINCATPKNSMGNNLYDQIMFY 240
 Db 128 SSPLTYVDSMIGMDKEYWEITDTSRKVIQTQGEWLLGINCATPKNSMGNNLYDQIMFY 240

Qy 129 VAERRRPPLYIINLLVPSSFLVALDALSFLVALSERAPKFLTLLGUGNVLMMNDL 300
 Db 130 VAERRRPPLYIINLLVPSSFLVALDALSFLVALSERAPKFLTLLGUGNVLMMNDL 300

Qy 131 PASGTPLISVYFAICSLMVSVLSLETITYLHVATTOPPMPRWLHSLLIHCSTSGRC 360
 Db 132 PASGTPLISVYFAICSLMVSVLSLETITYLHVATTOPPMPRWLHSLLIHCSTSGRC 360

Qy 133 PASGTPLISVYFAICSLMVSVLSLETITYLHVATTOPPMPRWLHSLLIHCSTSGRC 360

Qy 134 CPTAPOKGNGKLGLTITHLPGKPERGELACKKLGPRETEPDGGSGWTKTQLMELWQFSH 420
 Db 135 CPTAPOKGNGKLGLTITHLPGKPERGELACKKLGPRETEPDGGSGWTKTQLMELWQFSH 420

Qy 136 CPTAPOKGNGKLGLTITHLPGKPERGELACKKLGPRETEPDGGSGWTKTQLMELWQFSH 420

Qy 137 CPTAPOKGNGKLGLTITHLPGKPERGELACKKLGPRETEPDGGSGWTKTQLMELWQFSH 420

Qy 138 421 AMDTLFLFLYLFMMASSILTVLVLWNT 447
 Db 139 421 AMDTLFLFLYLFMMASSILTVLVLWNT 447

RESULT 4
 US-10-243-475-121
 ; Sequence 121, Application US/10243475
 ; Publication No. US20030194720A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Roberts, Steven L.
 ; APPLICANT: Benjamin, Christopher W.
 ; APPLICANT: Karnovsky, Alla M.
 ; APPLICANT: Ruble, Cara L.
 ; TITLE OF INVENTION: Human Ion Channels
 ; FILE REFERENCE: PHRM039-100
 ; CURRENT APPLICATION NUMBER: US/10/243,475

Copyright (c) 1993 - 2006 Biocceleration Ltd.

OM protein - protein search, using sw model

Run qn: April 12, 2006, 09:25:03 ; Search time 27 Seconds

(without alignments)
703.433 Million cell updates/sec

Title: US-10-661-378-9

Perfect score: 2360

Sequence: 1 MEGGWPARQSALLCILTVSLL.....RLYLFMASSILTVIVLNT 447

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 217505 seqs, 42489236 residues

Total number of hits satisfying chosen parameters: 217505

Minimum DB seq length: 0
Maximum DB seq length: 200000000Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA_New:
 1: /SIDSS5/podata/2/pubpaas/US08 NEW PUB_PEP:
 2: /SIDSS5/podata/2/pubpaas/US05 NEW PUB_PEP:
 3: /SIDSS5/podata/2/pubpaas/US07 NEW PUB_PEP:
 4: /SIDSS5/podata/2/pubpaas/PCT_NEW PUB_PEP:
 5: /SIDSS5/podata/2/pubpaas/US05 NEW PUB_PEP:
 6: /SIDSS5/podata/2/pubpaas/US10 NEW PUB_PEP:
 7: /SIDSS5/podata/2/pubpaas/US11 NEW PUB_PEP:
 8: /SIDSS5/podata/2/pubpaas/US60 NEW PUB_PEP:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match Length	DB ID	Description
1	766	32.5	7	US-11-037-829A-5	Sequence 4, Appli
2	727	30.8	483	7	Sequence 5, Appli
3	529	22.4	495	7	Sequence 7, Appli
4	415.5	17.6	494	7	Sequence 10, Appli
5	405	17.2	458	7	Sequence 16, Appli
6	402.5	17.1	529	7	Sequence 2, Appli
7	400.5	17.0	627	7	Sequence 1, Appli
8	399.5	16.9	502	7	Sequence 12, Appli
9	399.5	16.9	627	7	Sequence 6, Appli
10	398	16.9	491	7	Sequence 9, Appli
11	391	16.6	502	7	Sequence 14, Appli
12	388	16.4	502	7	Sequence 2, Appli
13	373.5	15.8	485	7	Sequence 1, Appli
14	372	15.8	504	7	Sequence 4, Appli
15	371.5	15.7	498	7	Sequence 3, Appli
16	371.5	15.7	498	7	Sequence 18, Appli
17	360	15.3	468	7	Sequence 8, Appli
18	250.5	10.6	481	6	Sequence 5, Appli
19	245.5	10.4	459	6	Sequence 6, Appli
20	239	10.1	467	6	Sequence 3, Appli
21	239	10.1	496	6	Sequence 2, Appli
22	229	9.7	487	7	Sequence 13, Appli
23	213	9.0	475	7	Sequence 16, Appli
24	213	9.0	487	7	Sequence 14, Appli
25	213	9.0	506	7	Sequence 15, Appli

ALIGNMENTS

RESULT 1
US-11-037-829A-4
; Sequence 4, Application US-11037829A
; Publication No. US20050255551A1
; GENERAL INFORMATION:
; APPLICANT: Targetcept, Inc
; Cathodal Healthcare West
; APPLICANT: Benchefrif, Merouane
; APPLICANT: Lukas, Ronald J.
; TITLE OF INVENTION: Methods and Compositions Relating to Chimeric
; TITLE OF INVENTION: Nicotinic Receptor Subunits
; FILE REFERENCE: T103 150.PCT
; CURRENT APPLICATION NUMBER: US-11037829A
; CURRENT FILING DATE: 2005-01-18
; PRIORITY NUMBER: US 60/397,380
; PRIORITY FILING DATE: 2002-07-19
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 478
; TYPE: PRT
; ORGANISM: Homo sapien
US-11-037-829A-4

Query Match 32.5%; Score 766; DB 7; Length 478;
Best Local Similarity 36.0%; Prod. No. 5.9e-65;
Matches 94; Mismatches 151; Indels 66; Gaps 14;
; CONSERVATIVE 175;
Qy 9 QSAALCHTVSLIQLGRGDAFTINCNSGFQHGVDPAVFQAIVED----RKAFFPTNYSI 62
Db 6 QQAIIAATPIL-AQGARR----SRNTTRPALAR-LSDYLTLTRKGVRPVDRK 57
; 63 PDIIFIVEAMDVDOTPSGLTAYISSEGRIKYDKEPMRTSICNLIDFYFPEDQONCFTESS 182
Qy 63 PTIVNISPLSALLGVDQLQLITSLFLMDLWDNPINNNPKCVCINKLTVAENLW 122
Db 58 PTIVSIDIVVYALLNDENKQVLTTVYRQTTDEFLOWNPDEDNTKLSLPTDSIWV 117
; 118 PDLINEFVDGKSPNIPVYIRHQGEVNYRLQVTAFCSDLPYFDVNCISLITF 177
Qy 183 ELYTVDMSLGLMDKEVWEITD--TSRKVIOQTQGEWELLGINKATPKHSM-GNNLYDQIM 238
Db 178 WHTIQDINSL---WRLPEKVKTSRSDEVSFMNGQEWELLGVLPYFRFSMMESSNNYYAEWK 233
; 239 FYAIRRPFSLYLINLWPSLFLVIAIDASFLYPAESRNAPKLTILGIVNPLLWMD 238
Qy 239 FVVVIRRRLPLFVYVSLLPSLFLPNSGERVSFKTLLGYSVFLIVYSD 293
Db 234 234

QY 299 LIPAS--GTPPLISVYPALCISLMVSLLETFTYLHVATTOPPMPRLHSLLHCTS 356
 DB 294 TLPATAIGPLIGGYFVYCMALLIVSIAETIFVRLVKDQLQ-QVPWAWLHFLVLERIA 352
 QY 357 PGRCC-----PTAOPQKGNK----GLGTLTTHLPGP----KEPGLAGRKLGPPRE 399
 DB 353 WLLCLREQSTSQRPATSOATKDDCSAMNHICSHMGCPQDFEKSPRDRCSPPPPRE-
 QY 400 PDGGSGWNTKTQMLM-----WVQFSHAMDTLFLFLYLFMASSILT 440
 DB 451 --ASLAVGILLOELSSTRQFLERDEIREWARDWLVRGSVLDKLFLHIVLAVLAYSIT 467
 QY 441 VIVLN 446
 DB 468 LVNLWS 473

RESULT 2
 US-11-037-829A-5
 ; Publication 5, Application US/11037829A
 ; Publication No. US2005025555A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Targacept, Inc
 ; APPLICANT: Cathoic Healthcare West
 ; APPLICANT: Benchefif, Merouane
 ; APPLICANT: Lukas, Ronald J.
 ; TITLE OF INVENTION: Methods and Compositions Relating to Chimeric
 ; TITLE OF INVENTION: Nicotinic Receptor Subunits
 ; FILE REFERENCE: T103 1520.PCT
 ; CURRENT APPLICATION NUMBER: US/11/037,829A
 ; CURRENT FILING DATE: 2005-01-18
 ; PRIOR APPLICATION NUMBER: 15
 ; PRIOR FILING DATE: 2002-07-19
 ; NUMBER OF SEQ ID NOS: 15
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 7
 ; LENGTH: 495
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: human nAChR alpha4-mouse 5HT3-FLAG chimera
 ; US-11-037-829A-7

Query Match 55 RPFTNYSPTRYNISFTLSAIIYGVDAQIQLITSTFLWMDNPFINWNPKECVGINKLT 114
 Best Local Similarity 22.4%; Score 529; DB 7; Length 495;
 Matches 129; Conservative 85; Mismatches 164; Indels 64; Gaps 12;
 db 53 RPVANISPDVVLVRFGLSIAQLDVDEKNQMMITINWWQEWHYKLRWDPADEVNSIR 112

Query Match 55 RPFTNYSPTRYNISFTLSAIIYGVDAQIQLITSTFLWMDNPFINWNPKECVGINKLT 114
 Best Local Similarity 29.2%; Score 529; DB 7; Length 495;
 Matches 129; Conservative 85; Mismatches 164; Indels 64; Gaps 12;
 db 53 RPVANISPDVVLVRFGLSIAQLDVDEKNQMMITINWWQEWHYKLRWDPADEVNSIR 112

Query Match 115 VLAENWLPDIFIVSNMDVQTPSGLT AYISSEGREGKYKDPMRVTISCNLDIYFPFDQ 173
 Best Local Similarity 30.8%; Score 727; DB 7; Length 483;
 Matches 156; Conservative 94; Mismatches 140; Indels 44; Gaps 10;
 db 113 IPSELIWRDPIVLYNNADGDFAVTHLTKAHLPHDGRQWTTPAIYKSVL 172

Query Match 174 QNCTFTSSFLYTVDSMNLGMKKEVWEITDTSTRVKIQ----TQGEWELLGI--NKATPKM 227
 Best Local Similarity 35.9%; Score 727; DB 7; Length 483;
 Matches 156; Conservative 94; Mismatches 140; Indels 44; Gaps 10;
 db 173 QNCTFTSSFLYTVDSMNLGMKKEVWEITDTSTRVKIQ----TQGEWELLGI--NKATPKM 227

Query Match 228 SMGNNNLYDQIMFYVAIRRPSLYTINLILYPSFLVALDALSTFLPARSENRAFPKTTLIL 287
 Best Local Similarity 35.0%; Score 727; DB 7; Length 483;
 Matches 156; Conservative 94; Mismatches 140; Indels 44; Gaps 10;
 db 224 ECAAEIYDITYAFVIRLPLPYTINLIPCLLUSCIIVLVFLYLPSCRGKBTILCISVLL 283

Query Match 288 GYNVFLMMNDLILPAGS -TPIJISUYFALCISLMVSYLLETPTYLHVATTOPPMPMR 345
 Best Local Similarity 35.0%; Score 727; DB 7; Length 483;
 Matches 156; Conservative 94; Mismatches 140; Indels 44; Gaps 10;
 db 284 SITVFLVLLITEIPSTSILVPLIGVYVCMALLVSLAETIFVRLVKDQLQ-RPVFD 342

Query Match 346 WLRSLLH-----C-TSPGRCCPTAQOKGNK-----GLOSLTTHLPGKPEPG 386
 Best Local Similarity 35.0%; Score 727; DB 7; Length 483;
 Matches 156; Conservative 94; Mismatches 140; Indels 44; Gaps 10;
 db 343 WLRHLVLDRIAMTLCQEQMHRPPATFOANKTDDSGSDLIPAMGNCNSHIVGGPPDLE 402

Query Match 387 EL---AGKKGPRETEPDGGSGWTKTOLMEL-----WYQFSHAMDT 424
 Best Local Similarity 35.0%; Score 727; DB 7; Length 483;
 Matches 156; Conservative 94; Mismatches 140; Indels 44; Gaps 10;
 db 403 KTPRGRRGSPPLP---DREASLAVRLVLLAYSLTIVLTLWS 480

RESULT 4
 US-11-122-144-10
 ; Sequence 10, Application US/11122144
 ; Publication No. US2005028766A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Targacept, Inc
 ; APPLICANT: Cathoic Healthcare West
 ; APPLICANT: Benchefif, Merouane
 ; APPLICANT: Lukas, Ronald J.
 ; TITLE OF INVENTION: Methods and Compositions Relating to Chimeric
 ; TITLE OF INVENTION: Nicotinic Receptor Subunits
 ; FILE REFERENCE: T103 1520.PCT
 ; CURRENT APPLICATION NUMBER: US/11/037,829A
 ; CURRENT FILING DATE: 2005-01-18
 ; PRIOR APPLICATION NUMBER: T103 1520.PCT
 ; PRIOR FILING DATE: 2002-07-19
 ; NUMBER OF SEQ ID NOS: 15
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 5
 ; LENGTH: 483
 ; TYPE: PRT
 ; ORGANISM: Mouse
 ; US-11-037-829A-5

Query Match 231 -NNLYDQIMFYAIRRSLSLYINLILPSSFLVALDALSTFLPARSENRAFPKTTLIL 289
 Best Local Similarity 35.0%; Score 727; DB 7; Length 483;
 Matches 156; Conservative 94; Mismatches 140; Indels 44; Gaps 10;
 db 230 ISNSYAEMKFYTYTIRRLPFYAVSLLLPSFLMVVDIVGPCLUPDGSERVSKITLILG 289

Query Match 290 NVFLLMNDLILPAS--GTPPLISVYFALCISLMVVSLLETFTYLHVATTOPPMPRWL 347
 Best Local Similarity 35.0%; Score 727; DB 7; Length 483;
 Matches 156; Conservative 94; Mismatches 140; Indels 44; Gaps 10;
 db 290 SVFLIISDTLPATAITPLIGYFVVCMAILVSLAETIFVRLVKDQLQ-RPVFDWL 348

Query Match 348 HSLLH-----C-TSPGRCCPTAQOKGNK-----GJGLLTTHLPGKPEPG --AGK 391
 Best Local Similarity 35.0%; Score 727; DB 7; Length 483;
 Matches 156; Conservative 94; Mismatches 140; Indels 44; Gaps 10;
 db 349 RHLVLDRIAWLCLGQBQMAHREPATFOANKTDDSGSDLIPAMGNCNSHIVGGPPDLE 408

Query Match 392 KLGPRETEPDGGSGWTKTOLMEL-----WYQFSHAMDTLFLYLL 432
 Best Local Similarity 35.0%; Score 727; DB 7; Length 483;
 Matches 156; Conservative 94; Mismatches 140; Indels 44; Gaps 10;
 db 409 PLPP---PREASLAVRLVLLAYSLTIVLTLWS 480

Query Match 425 LLFRYLFLMASLITIVLWN 446
 Best Local Similarity 35.0%; Score 727; DB 7; Length 483;
 Matches 156; Conservative 94; Mismatches 140; Indels 44; Gaps 10;
 db 459 LLFRYLFLMASLITIVLWN 480

Qy	121	WLDIFIVESMDVDQTTPSGLAVISSEGRIKYDKPMRVTSICLDIFYFPDQQNCTETP	180	Best Local Similarity 74.2%; Pred. No. 2.3e-132; Matches 333; Conservative 44; Mismatches 63; Indels 9; Gaps 1;
Db	121	WLDIFIVESMDVDQTTPSGLAVISSEGRIKYDKPMRVTSICLDIFYFPDQQNCTETP	180	Qy 8 ROSALICLTVSLLQGKDAFTINCSDQGVDPWQAVYDPRKARPPFNYSIPTPVN 67
Qy	181	SSFLTYTDMSLIGMDKEYWEITDTSRKVLIOTQEWELLGINKATPKMSGMNLYDQIMFY	240	Db 23 RVALFLHTHNSMTSTGRGVTFINCSFGQIGADPTAHLNSVNRKPRTVNISVLTQVN 82
Db	181	SSFLTYTDMSLIGMDKEYWEITDTSRKVLIOTQEWELLGINKATPKMSGMNLYDQIMFY	240	Qy 68 ISFTLSAILGLYDAQLQILTSFLWMDLPNTINWNPBKCGVINGKTLVLAENLWLPIIFI 127
Qy	241	VAIRRSPSLYIINLVPSSEFLVIDALSFSYLPAESENRAFPKFLILLYGYNVFLMMNDLL	300	Db 83 ISFAMSAILDVNEQHLISSLFVWLEMWDNPPISWBECGDTTMSMAKLWLPIIFI 142
Db	241	VAIRRSPSLYIINLVPSSEFLVIDALSFSYLPAESENRAFPKFLILLYGYNVFLMMNDLL	300	Qy 128 VESMDVDTOPPSLTAYISSEGRIKYDKPMRVTSICLDIFYFPDQNCNTFESSFLYT 187
Qy	301	PASGTLPLSIVFACLSLIMVSVSLETYFITYLHVATTQPPMPMWPWLSLLHCTSGRC	360	Db 143 TELMDVTKTPKGILTAYISNEGRIKYKCPMKDVSICNDIFYFPDQNCNTFESSFLYT 202
Db	301	PASGTLPLSIVFACLSLIMVSVSLETYFITYLHVATTQPPMPMWPWLSLLHCTSGRC	360	Qy 188 DSMLLGNDKEYWEITDTSRKVLIOTQEWELLGINKATPKMSGMNLYDQIMFYVARRP 247
Qy	361	CPTAPQKNGKIGLTLTHLPGKPGELAGKIGLGPRETEPDGGSGWTTKTOLMELWYQFSH	420	Db 203 DSMLLGNDKEYWEITDTSRKVLIOTQEWELLGSKATAKLSRGGNLYDRIVEYVALLRRP 262
Db	361	CPTAPQKNGKIGLTLTHLPGKPGELAGKIGLGPRETEPDGGSAWTKTQMLBWYQFSH	420	Qy 248 SLXVNLVLPSSFLVALIDALSYLPVALDAPKLTLLGYNVFLIMMNDLLPASSTPL 307
Qy	421	AMDTLFPLYLFMMASTLVITVWNT 447		Db 263 SLYVINNLVPSGFLVADALSYLPVALDAPKLTLLGYNVFLIMMNDLLPASSTPL 322
Db	421	AMDTLFPLYLFMMASTLVITVWNT 447		Qy 308 ISVYFALCLSLMVSLIETVTITYLHVATTOPPPMPRWLHSLLGICSTSQRCCPTAPQK 367
Db	323	IGVYFALCLSLMVSLIETIFTIHLHVATTOPPPMPRWLHSLLHICNSPGRCCPTAPQK	382	Db 323 IGVYFALCLSLMVSLIETIFTIHLHVATTOPPPMPRWLHSLLHICNSPGRCCPTAPQK 382
RESULT 2				
Q7Z6B2_HUMAN	ID	Q7Z6B2_HUMAN PRELIMINARY;	PRT;	471 AA.
AC	AC	Q7Z6B2;		
DT	DT	01-OCT-2003 (TREMBLrel. 25, Created)		AC Q6V707_HUMAN PRELIMINARY; PRT; 441 AA.
DT	DT	01-OCT-2003 (TREMBLrel. 25, Last sequence update)		Q6V707_
DT	DT	01-MAR-2004 (TREMBLrel. 26, Last annotation update)		05-JUL-2004 (TREMBLrel. 27, Last sequence update)
DE		5-hydroxytryptamine serotonin receptor 3E.		05-JUL-2004 (TREMBLrel. 27, Last annotation update)
GN	Name=HTR3E;			
OS	OS	Homo sapiens (Human).		
OC	OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;		
OC	OC	Homo.		
NCBI_TAXID=9606;				
OX	OX			
RN	RN			
RP	RP			
[1]				
NUCLEOTIDE SEQUENCE.				
RX	MEDLINE=22586529; PubMed=12801637; DOI=10.1016/S0378-1119(03)00503-1;			
RA	Niesler B., Frank B., Kappeler J., Rappold G.A.;			
RT	"Cloning, physical mapping and expression analysis of the human 5-HT(3) serotonin receptor-like genes HTR3C, HTR3D and HTR3E.";			
RT	Gene 30:101-111 (2003).			
RL	- SUBCELLULAR LOCATION: Integral membrane protein (By similarity).			
CC	- SIMILARITY: Belongs to the ligand-gated ionic channel (TC 1.A.9).			
CC	- SIMILARITY: Belongs to the ligand-gated ionic channel activity (TC 1.A.9).			
DR	EMBL: AY159813; AA038167.1; - mRNA.			
DR	Ensembl: ENSG0000018038; Homo sapiens.			
DR	GenBank: HGNC: HGNC_024005; HTR3E.			
DR	GO; GO:0016021; C:integral to membrane; IEA.			
DR	GO; GO:004211; C:postsynaptic membrane; IEA.			
DR	GO; GO:005230; F:extracellular ligand-gated ion channel acti. . . ; IEA.			
DR	GO; GO:005216; F:ion channel activity; IEA.			
DR	InterPro; IPR006201; Neur. channel.			
DR	InterPro; IPR006202; Neur. chan LBD.			
DR	InterPro; IPR006029; Nu_`Chmbl_memb.			
DR	InterPro; IPR000169; Pept_cys_AS.			
DR	Pfam; PF02931; Neu_r Chan_LBD; 1.			
DR	Pfam; PF02932; Neu_r Chan_memb; 1.			
DR	PRINTS; PR0252; NRIONCHANNEL.			
DR	PROSITE; PS00236; NEUROTRANSMITTER CHANNEL; 1.			
DR	PROSITE; PS00639; THIOL_Protease_His; UNKNOWN 1.			
KW	Ion transport; Ionic channel; Postsynaptic membrane; Receptor; Transmembrane; Transport.			
SEQUENCE	SEQUENCE 471 AA; 52870 MW;			
SQ	E51343PF693B02F5B CRC64;			
Query Match	75.3%;	Score 1777.5;	DB 2;	Length 471;